

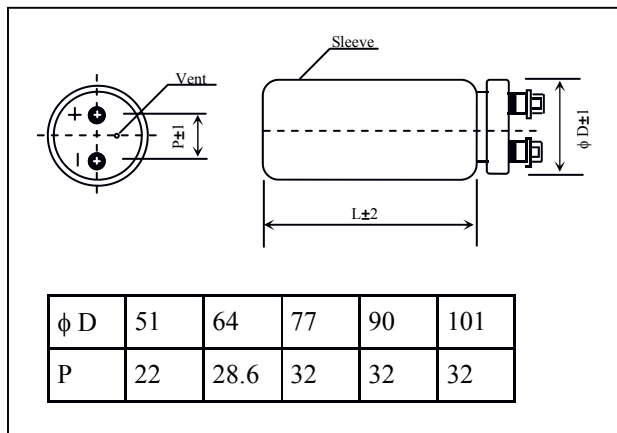
- The size is reduced by 14% of RCT, and high voltage series  
500 V DC is added in the series
- Warranty of 2000 hours at 85°C



## ■ SPECIFICATIONS

Item	Characteristics	
Rated Voltage Range (V)	400,450,500V	
Operating Temperature Range (°C)	-40°C ~ + 85°C	
Rated Capacitance Tolerance (25°C 100Hz)	±20%	
Leakage Current	0.01CV or 6mA, whichever is smaller (at 20°C, after 5 minutes) C: Normal Capacitance (μF); V: Rated Voltage (V)	
Dissipation Factor (max) 25°C, 100Hz	0.20	
Load Life (+105°C)	Time	2000 hours
	Capacitance change(ΔC/C)	≤ ± 30% of the initial measured value
	Dissipation Factor (tanδ)	≤ 300% of the specified value
	Leakage current (I <sub>L</sub> )	≤ the specified value
Shelf life (+105°C)	Time	500 hours
	Capacitance change	Within ±15% of the initial value
	Dissipation Factor (tgδ)	Not more than 175% of specified value
	Leakage current (I <sub>L</sub> )	Not more than the specified value

## ■ DIMENSIONS



## ■ MULTIPLIER FOR RIPPLE CURRENT

### Frequency coefficient

Frequency (Hz)	50 ,60	120	300	1K	≥10K
Factor	0.7	1.0	1.1	1.3	1.4

### Temperature coefficient

Temperature(°C)	+40	+60	+70	+85
Factor	1.0	0.75	0.6 2	0.37

■ STANDARD RATINGS

Rated Voltage (V.DC)	Surge voltage (V.DC)	Rated capacitance ( $\mu$ F)	Leakage current MAX (mA)	Dissipation factor MAX	Max ripple current 85°C 120Hz (Arms)	Outline size	
						Code	$\phi$ DxL(mm)
400	450	2200	5.0	0.20	16.5	C12R	51X115
		2700	5.0	0.20	19.2	C13R	51X130
			5.0	0.20	18.7	D10R	64X96
		3300	5.0	0.20	20.7	D10R	64X96
		3900	5.0	0.20	24.1	D12R	64X115
		4700	5.0	0.20	27.8	D13R	64X130
		5600	5.0	0.20	30.6	E12R	77X115
		6800	5.0	0.20	35.4	E13R	77X130
		8200	5.0	0.20	41.6	E16R	77X155
		10000	5.0	0.20	50.5	E20R	77X195
			5.0	0.20	45.8	F13R	90X131
		12000	5.0	0.20	53.8	F16R	90X157
		15000	5.0	0.20	65.7	F20R	90X196
		18000	5.0	0.20	77.7	F24R	90X236
			5.0	0.20	69.8	G18R	101X175
22000	5.0	0.20	86.8	G24R	101X237		
450	500	1800	5.0	0.20	14.9	C12R	51X115
		2200	5.0	0.20	17.3	C13R	51X130
			5.0	0.20	16.9	D10R	64X96
		2700	5.0	0.20	18.7	D10R	64X96
		3300	5.0	0.20	22.2	D12R	64X115
		3900	5.0	0.20	25.3	D13R	64X130
		4700	5.0	0.20	28.1	E12R	77X115
		5600	5.0	0.20	32.1	E13R	77X130
		6800	5.0	0.20	37.9	E16R	77X155
		8200	5.0	0.20	45.8	E20R	77X195
			5.0	0.20	41.5	F13R	90X131
		10000	5.0	0.20	50.6	F17R	90X171
		12000	5.0	0.20	58.7	F20R	90X196
			5.0	0.20	57.0	G18R	10X1175
		15000	5.0	0.20	70.9	F24R	90X236
5.0	0.15		66.5	G20R	10X1195		
18000	5.0	0.15	78.5	G24R	10X237		

## STANDARD RATINGS

Rated Voltage (V.DC)	Surge voltage (V.DC)	Rated capacitance ( $\mu$ F)	Leakage current MAX (mA)	Dissipation factor MAX	Max ripple current 85°C 120Hz (Arms)	Outline size	
						Code	$\phi$ DxL(mm)
500	550	1200	5.0	0.15	12.2	C12R	51X115
			5.0	0.20	12.5	D10R	64X96
		1500	5.0	0.20	14.3	C13R	51X130
			5.0	0.20	13.9	D10R	64X96
		1800	5.0	0.20	16.4	D12R	64X115
		2200	5.0	0.20	19.0	D13R	64X130
		2700	5.0	0.20	21.3	E12R	77X115
		3300	5.0	0.20	24.6	E13R	77X130
		3900	5.0	0.20	28.7	E16R	77X155
		4700	5.0	0.20	32.9	E17R	77X171
			5.0	0.20	31.4	F13R	90X131
		5600	5.0	0.20	37.8	E20R	77X195
			5.0	0.20	36.7	F16R	90X157
		6800	5.0	0.20	41.8	F17R	90X171
		8200	5.0	0.20	48.5	F20R	90X196
			5.0	0.20	47.1	G18R	101X175
		10000	5.0	0.20	57.9	F24R	90X236
			5.0	0.20	54.3	G20R	101X195
		12000	5.0	0.20	64.1	G24R	101X237